

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of: Liu, et al. Attorney Docket No.: 39843-0011IP1  
U.S. Patent No.: 6,146,997  
Issue Date: November 14, 2000  
Appl. Serial No.: 09/407,268  
Filing Date: September 29, 1999  
Title: METHOD FOR FORMING SELF-ALIGNED CONTACT HOLE

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W. Karl Renner, Reg. No. 41,265

Roberto Devoto, Reg. No. 55,108

and all practitioners associated with PTO Customer Number 26171.

I have the authority to execute this document on behalf of Samsung Austin Semiconductor, LLC.

**Samsung Austin Semiconductor, LLC.**

By: 

Name: CHRISTOPHER BURRELL

Title: SENIOR PATENT COUNSEL

Date: 12/16/2014

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**Samsung Electronics America, Inc.**

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Name: CHRISTOPHER BURRELL

Title: SENIOR PATENT COUNSEL

Date: 12/16/2014

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**Samsung Electronics Co. Ltd.**

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Title: SENIOR PATENT COUNSEL  
Date: 12/16/2014

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**Samsung Semiconductor, Inc.**

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Name: CHRISTOPHER BURRELL

Title: SENIOR PATENT COUNSEL

Date: 12/16/2014

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W. Karl Renner, Reg. No. 41,265

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I have the authority to execute this document on behalf of Samsung Telecommunications America, LLC.

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